



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

FED EX NO. 7742 9810 1163

January 28, 2019

Technical Management Section
South Carolina Department of Health and Environmental Control
Bureau of Air Quality
2600 Bull Street
Columbia, SC 29201-1708

Re: 2018 Fourth Quarter CEMS Report Summaries
Air Permit Number TV-2440-0005

Technical Management Section:

Enclosed are the 2018 Fourth Quarter Continuous Emission Monitor Report Summaries and Title V monitoring report for Resolute Forest Products – Catawba Mill, Air Permit Number TV-2440-0005. Logs detailing each specific incident are also enclosed.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete.

This is the final CEMS report that Resolute FP US Inc. will submit for TV permit 2440-0005 because this permit is being transferred to New-Indy Catawba LLC pursuant to the application of ownership change submitted on January 25, 2019. Further communication on this matter should be directed to Bob Tourville at bob.tourville@new-indycb.com.

If there are any questions, please feel free to contact Mike Swanson at mike.swanson@new-indycb.com or (803) 981-8010.

Sincerely,

David Clemmons
Interim General Manager

Attachments: CEMS Logs

cc: Alex Latta, Region 3 Lancaster EQC Office
EPA Region 4
Environmental File 208.20

2018 4th Quarter CEM Report Summaries

Title V Permit Unit ID 01 – Woodyard

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
01.1	1300	N/A	N/A	Refers to FW.4
01.2	1300	N/A	N/A	Refers to FW.4
01.3	1300	No	N/A	Refers to FW.4
01.4	1300	N/A	N/A	Refers to FW.1

Title V Permit ID 02 – Kraft Process – Kraft Pulp Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
02.1	5210, 5220, 5230, 5240, and 5250	No	N/A	N/A
02.2(A)	5210 & 5230	Yes	Semi-annual	See below.
02.2(B)	5210 & 5230	N/A	N/A	Refers to 08.7.
02.3	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to MACT conditions.
02.4	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to FW.1.

Condition 02.2(A)

Equip IDs 5210 and 5230

Reporting Frequency: Semi-Annually

There were no parameters outside the ranges listed in Attachment H for the scrubber (Control Device ID 5260C) during the semi-annual period.

2018 4th Quarter CEM Report Summaries

Title V Permit ID 03 – Kraft Process: Kraft Bleach Plant

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
03.1	5300	Yes	Semi-annual	See note below.
03.2	5300	N/A	N/A	Refers to MACT conditions.
03.3	5300	N/A	N/A	Refers to FW.1

Condition 03.1 Equip ID 5300

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.03.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is continuous monitoring of specific scrubber parameters.
- Cause(s) and corrective action(s) are detailed on the enclosed logs.

There were three incidents during which the pH reading were outside of range during the reporting period. See the enclosed log for details.

Title V Permit ID 04 – Kraft Process: Chlorine Dioxide Generator

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
04.1	1790	Yes	Semi-annual	See note below.
04.2	1790	No	N/A	N/A

Condition 04.1 Equip ID 1790

Reporting Frequency: Semi-Annually

There was one incident in which a surrogate monitoring parameter was outside the range for the chlorine dioxide scrubber (Control Device ID 1790C) during the semi-annual reporting period. See the enclosed log for details.

Title V Permit ID 05 – TMP Process

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
05.1	4400	No	N/A	N/A
05.2	4400	No	N/A	N/A

2018 4th Quarter CEM Report Summaries

Title V Permit ID 06 – Paper Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
06.1(A)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	N/A	N/A	Refers to FW.4.
06.1(B)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	Yes	Semi-annual	See note below.
06.2(A)	2010, 4610, 4120, 4130, & 9900	No	N/A	N/A
06.2(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(A)	2010	No	N/A	N/A
06.3(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(C)	4610	Yes	Semi-annual	See note below.
06.3(D)	9900	Yes	Semi-annual	See note below.
06.4	4110	Yes	Semi-annual	See note below.
06.5(A)	2010	No	N/A	N/A
06.5(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.5(C)	4610	Yes	Semi-annual	See note below.
06.5(D)	9900	Yes	Semi-annual	See note below.
06.6(A)	4610	Yes	Semi-annual	See note below.
06.6(B)	9900	Yes	Semi-annual	See note below.
06.7	4110	No	N/A	N/A
06.8	2010	No	N/A	N/A
06.9	2000, 2010, 2100, 4600, 4610, 4100, 4110, 4120, & 4130	N/A	N/A	Refers to FW. 1
06.10	2005, 2010, 4605, & 4610	N/A	N/A	Refers to MACT conditions

Condition 06.1(B)

Equip IDs 2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704

Reporting Frequency: Semi-Annually

During the reporting period, no abnormal dust emissions were noted on daily inspection reports during the semi-annual period.

2018 4th Quarter CEM Report Summaries

Condition 06.2(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Kerosene was not utilized in the Hot Oil Heating System (4130); therefore, no visual inspections were performed during the reporting period. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.3(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

The Infrared Dryer (4120) was removed from service at the end of May 2013. Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130):

Month	Natural Gas (MMBtu)	Propane (gallons)	Kerosene (gallons)	12-month Rolling Sum NG (MMBtu)	Rolling Sum Propane (Gallons)	Rolling Sum Kerosene (Gallons)
July-17	4,309	0	0	45,268	0	0
August-17	4,204	0	0	46,376	0	0
September-17	3,987	0	0	46,918	0	0
October-17	4,452	0	0	46,964	0	0
November-17	4,250	0	0	47,092	0	0
December-17	4,088	0	0	46,849	0	0
January-18	4,014	0	0	46,841	0	0
February-18	4,050	0	0	46,665	0	0
March-18	4,629	0	0	47,368	0	0
April-18	4,039	0	0	48,020	0	0
May-18	3,466	0	0	48,143	0	0
June-18	4,269	0	0	49,758	0	0
July-18	4,790	0	0	50,239	0	0
August-18	4,330	0	0	50,364	0	0
September-18	4,395	0	0	50,771	0	0
October-18	4,381	0	0	50,700	0	0
November-18	4,340	0	0	50,790	0	0
December-18	4,757	0	0	51,459	0	0

2018 4th Quarter CEM Report Summaries

Condition 06.3(C)
Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of kerosene and propane for the No. 2 Coater Dryer (4610) (idled in June 2017) are shown below:

No. 2 Paper Machine Coater Fuel Usage

	Kerosene (gallons)	12-Month Sum	Propane (gallons)	12-Month Sum
July-17	0	0	0	0
August-17	0	0	0	0
September-17	0	0	0	0
October-17	0	0	0	0
November-17	0	0	0	0
December-17	0	0	0	0
January-18	0	0	0	0
February-18	0	0	0	0
March-18	0	0	0	0
April-18	0	0	0	0
May-18	0	0	0	0
June-18	0	0	0	0
July-18	0	0	0	0
August-18	0	0	0	0
September-18	0	0	0	0
October-18	0	0	0	0
November-18	0	0	0	0
December-18	0	0	0	0

Condition 06.3(D)
Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make-Up Air Units (4610) are shown below:

Air Makeup Units

	Natural Gas (scf)	12-Month Rolling Sum	Propane (gallons)	12-Month Rolling Sum
January-18	14,363,759	57,750,887	0	0
February-18	14,411,657	68,503,817	0	0
March-18	15,982,631	80,055,154	0	0
April-18	14,511,762	91,268,834	0	0
May-18	40,387	87,198,341	0	0
June-18	507,750	86,223,968	0	0
July-18	457	86,224,424	0	0
August-18	167	86,224,471	0	0
September-18	104	86,224,469	0	0
October-18	52	86,224,449	0	0
November-18	1	73,764,726	0	0
December-18	1	59,818,729	0	0

2018 4th Quarter CEM Report Summaries

Condition 06.4 Equip ID 4110

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Air Flootation Dryer (4110) are shown below:

Month	Natural Gas MMBtu	Propane (gallons)	Kerosene (gallons)	PM / MMBtu
July-17	7,594	0	0	0.0076
August-17	7,410	0	0	0.0076
September-17	7,028	0	0	0.0076
October-17	7,846	0	0	0.0076
November-17	7,490	0	0	0.0076
December-17	7,205	0	0	0.0076
January-18	7,074	0	0	0.0076
February-18	7,138	0	0	0.0076
March-18	8,159	0	0	0.0076
April-18	7,118	0	0	0.0076
May-18	6,108	0	0	0.0076
June-18	7,523	0	0	0.0076
July-18	8,442	0	0	0.0076
August-18	7,631	0	0	0.0076
September-18	7,745	0	0	0.0076
October-18	7,721	0	0	0.0076
November-18	7,648	0	0	0.0076
December-18	8,384	0	0	0.0076

The Air Flootation Dryer demonstrated compliance with the BACT limit of 0.0164 lb PM per million BTU.

Condition 06.5(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130) are shown for condition 5C.06.3(B) above. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.5(C) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

2018 4th Quarter CEM Report Summaries

Condition 06.5(D) Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Condition 06.6(A) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

Condition 06.6(B) Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Title V Permit ID 07 – Chemical Recovery

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.1(A)	2400, 2402, 2500, 5100	No	N/A	N/A
07.1(B)	2515, 2520, 5115, 5120, 2700, 2701, 2702, & 2703	N/A	N/A	Refers to FW.4
07.1(C)	2700 & 2701 (2725C)	No	N/A	N/A
07.2(A)	2505 & 2723	Yes	Semi-annual	See note below.
07.2(B)	2510 & 5110 (2511C)	Yes	Semi-annual	See note below.
07.3	5105	Yes	Semi-annual	See note below.
07.4(A)	2505	N/A	N/A	Refers to MACT conditions
07.4(B1)	2505	N/A	N/A	Refers to MACT conditions
07.4(B2)	2505	No	N/A	N/A
07.5(A)	2510	N/A	N/A	Refers to MACT conditions
07.5(B1)	2510	N/A	N/A	Refers to MACT conditions
07.5(B2)	2510	No	N/A	N/A
07.6(A)	5105	N/A	N/A	Refers to MACT conditions
07.6(B1)	5105	N/A	N/A	Refers to MACT conditions
07.6(B2)	5105	No	N/A	N/A
07.6(C)	5105	N/A	N/A	Refers to FW.3.
07.7(A)	5110	N/A	N/A	Refers to MACT conditions.
07.7(B)	5110	N/A	N/A	Refers to MACT conditions.
07.8(A)	2723	N/A	N/A	Refers to MACT conditions.
07.8(B)	2723	N/A	N/A	Refers to MACT conditions.
07.8(C1)	2723	N/A	N/A	Refers to MACT conditions.
07.9(A)	2725C	No	N/A	N/A
07.9(B)	2726C & 2724C	No	N/A	N/A

2018 4th Quarter CEM Report Summaries

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.9(C)	2724C, 2725C & 2726C	Yes	Semi-annual	See note below.
07.10(A)	5105 & 2723	No	N/A	N/A
07.10(B)	2723	No	N/A	N/A
07.10(C)	5105	No	N/A	N/A
07.10(D1)	2723	N/A	N/A	Refers to FW.2.
07.10(D2)	2723	N/A	N/A	Refers to FW.3.
07.10(D3)	5105	N/A	N/A	Refers to FW.3.
07.11(A)	5105 & 2723	No	N/A	N/A
07.11(B1)	2723	No	N/A	N/A
07.11(B2)	5105	No	N/A	N/A
07.11(C1)	2723	N/A	N/A	Refers to FW.2.
07.11(C2)	2723	N/A	N/A	Refers to FW.3.
07.11(C3)	5105	N/A	N/A	Refers to FW.3.
07.12(A)	5105 & 2723	No	N/A	N/A
07.12(B)	5105 & 2723	Yes	Semi-annual	See note below.
07.12(C1)	2723	N/A	N/A	Refers to FW.2.
07.12(C2)	2723	N/A	N/A	Refers to FW.3.
07.12(C3)	5105	N/A	N/A	Refers to FW.3.
07.13(A)	5260 (5260C)	N/A	N/A	Refers to 02.2.
07.13(B)	2400, 2500, 5100, & 5260	N/A	N/A	Refers to 08.7.
07.14	2505	Yes	Semi-annual	See note below.
07.15	5105	Yes	Semi-annual	See note below.
07.16(A)	2510	Yes	Semi-annual	See note below.
07.16(B)	5110	Yes	Semi-annual	See note below.
07.17(A)	2723	Yes	Semi-annual	See note below.
07.17(B1)	2723	N/A	N/A	Refers to FW.2.
07.17(B2)	2723	N/A	N/A	Refers to FW.3.
07.18(A1)	2723	N/A	N/A	See note below.
07.18(A2)	2723	N/A	N/A	Refers to FW.3.
07.19	2400, 2700, 2701, 2702, 2723, 5105, 5110, & 5115	N/A	N/A	Refers to FW.1.
07.20 & 0.7.21	2400, 2500, & 5100	N/A	N/A	Refer to MACT conditions.
07.22	2505, 2110, 2723, 5105, & 5110	N/A	N/A	Refer to MACT conditions.

Condition 07.2(A) Equip IDs 2505 & 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

2018 4th Quarter CEM Report Summaries

There were no three-hour opacity episodes for the No. 2 Lime Kiln (ID 2723) during the semi-annual reporting period.

There were no three-hour opacity episodes for the No. 2 Recovery Furnace (ID 2505) during the semi-annual reporting period.

See the attached logs for continuous opacity monitoring downtime and excess emissions for the reporting period.

Condition 07.2(B)
Control Device ID 2511C

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of deviation from the scrubber monitoring ranges and one incident of monitor downtime. See the enclosed log for details.

2018 4th Quarter CEM Report Summaries

Condition 07.3 Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.3.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no three-hour opacity episodes during the semi-annual reporting period.

See the attached logs for continuous opacity monitoring downtime and excess emissions for the reporting period.

Condition 07.9(C) Control Device IDs 2724C, 2725C, & 2726C

Reporting Frequency: Semi-Annually

For the Slaker Scrubber (ID 2725C), there were no variations of a surrogate monitoring parameter during the semi-annual period.

No abnormal dust emissions were noted on the daily logs for the lime silos baghouses (IDs 2724C and 2726C) during the semi-annual reporting period.

2018 4th Quarter CEM Report Summaries

Condition 07.12(B) Equip IDs 2723 & 5105

Reporting Frequency: Semi-Annually

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable.

The required data is recorded for the No. 3 Recovery Furnace (ID 5105). See attached log for continuous emissions monitoring downtime and excess emissions for the reporting period.

Condition 07.14 Equip ID 2505

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.14.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

See attached log for continuous emissions monitoring downtime and excess emissions for the reporting period.

Condition 07.15 Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.15.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

See attached log for the continuous emissions monitoring downtime and excess emissions for the reporting period.

Condition 07.16(A) Equip ID 2510

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of scrubber monitoring range deviation and no monitor downtime.

Condition 07.16(B) Equip ID 5110

Reporting Frequency: Semi-Annually

2018 4th Quarter CEM Report Summaries

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of scrubber monitoring range deviation and no monitor downtime.

Condition 07.17(A) Equip ID 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.17.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

See attached log for the continuous emissions monitoring downtime and excess emissions for the reporting period.

Condition 07.18(A1) Equip ID 2723

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable. If/when the modifications occur, Facility-Wide condition FW.2 will apply.

2018 4th Quarter CEM Report Summaries

Title V Permit ID 08 – Utilities

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
08.1(A)	2550	N/A	N/A	Refers to FW.4.
08.1(B)	2605 & 3705	Yes	Quarterly	See note below.
08.2(A)	2550	N/A	N/A	Refers to FW.4.
08.2(B1)	2605 & 3705	Yes	Semi-annual	See note below.
08.2(B2)	2605 & 3705	No	N/A	N/A
08.2(C)	2605 & 3705	No	N/A	N/A
08.3(A)	2550	No	N/A	N/A
08.3(B)	2605 & 3705	No	N/A	N/A
08.4	2550	Yes	Quarterly	Submitted under separate cover.
08.5	2605 & 3705	Yes	Annual	Submitted under separate cover.
08.6	2605 & 3705	Yes	Semi-annual	See note below.
08.7	2605, 3705, 5260, 5270, & 9820	Yes	Semi-annual	See note below.
08.8	2605, 3705, 5260, 5270, & 9820	N/A	N/A	Refers to MACT conditions.

Condition 08.1(B) Equip IDs 2605 & 3705

Reporting Frequency: Quarterly

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no periods of 3-hour opacity episodes during the quarter for either boiler.

There were no trips of the precipitator for No. 1 Combination Boiler, but two trips for No. 2 Combination Boiler within the quarter. Specific details are on the enclosed logs for each boiler.

Condition 08.2(B1) Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no trips of the precipitator for No. 1 Combination Boiler, but two trips for No. 2 Combination Boiler within the semiannual period. Specific details are on the enclosed logs for each boiler.

Condition 08.6

2018 4th Quarter CEM Report Summaries

Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

Tire-derived fuel (TDF) rate records for the semi-annual reporting period indicate that there were no rates above the 1.5-TPH limit.

Condition 08.7

Equip IDs 2605, 3705, 5260, 5270, & 9820

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.7.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is positive operation of flame failure system and vent valve position.
- Cause and corrective actions are detailed on the enclosed logs.

During the semi-annual period, there were 14 vents of the low volume high concentration (LVHC) gas system, and 23 vents of the high volume low concentration (HVLC) gas system, due to a variety of causes, including loss of power, startup, and valve malfunctions.

Note: Reports required under 40 CFR Part 60 Subpart S and General Provisions are being submitted separately to the Air Toxics Group. A copy is attached to this report for your review.

Title V Permit ID 09 – Waste Treatment

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
09.1(A)	9800 & 9801	No	N/A	N/A
09.1(B)	2902 through 2905	N/A	N/A	Refers to FW.4
09.2	2902 through 2905	No	N/A	N/A
09.3	2903	Yes	Semi-annual	See note below.
09.4	9801	N/A	N/A	Refers to 08.7
09.5	9801	N/A	N/A	Refers to MACT conditions

Condition 09.3

Equip ID 2903

Reporting Frequency: Semi-Annually

Monthly records indicate the No. 1 Holding Basin Pump No. 2 did not operate more than 7000 hours per year.

Title V Permit ID 10 – Storage Tanks

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
10.1	1100	No	N/A	N/A
10.2	1100	No	N/A	N/A

Title V Permit ID 11 – Miscellaneous

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
11.1	2900 & 1000	N/A	N/A	Refer to FW.4

Facility Wide Conditions

2018 4th Quarter CEM Report Summaries

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
FW.1	All	No	N/A	N/A
FW.2	2723	Yes	Semi-annual	See note below.
FW.3	2723 & 5105	No	N/A	N/A
FW.4	1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100	Yes	Semi-annual	See note below.
FW.5	5210, 5240, 2400,	Yes	Semi-annual	See notes below.
FW.6	5100, 5260, 5260C,			
FW.7	2605, & 3705			
		No	N/A	N/A

2018 4th Quarter CEM Report Summaries

Condition FW.2
Equip ID 2723

Reporting Frequency: Semi-Annually

Lime Kiln production rates are shown below:

Month	Kiln Production TPD	12- Month Rolling Avg, TPD
July-17	338	353
August-17	350	353
September-17	370	351
October-17	335	346
November-17	386	353
December-17	394	362
January-18	329	357
February-18	366	356
March-18	363	360
April-18	378	368
May-18	225	356
June-18	364	350
July-18	395	355
August-18	404	359
September-18	382	360
October-18	379	364
November-18	365	362
December-18	386	361

The 12-month rolling sum for lime kiln operation did not exceed the 465-ton per day limit during the reporting period.

Condition FW.4
Equip IDs 1300, 2000, 2005, 4600, 4605, 4100, 4110,
9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610,
4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700,
2701, 2702, 2703, 2550, 2902,
2903, 2904, 2905, 2900, & 1100

Reporting Frequency: Semi-Annually

Visual emissions inspections were conducted on the sources listed below and the frequencies indicated. There were no incidences of abnormal VE results during the semi-annual reporting period.

Condition FW.5(A1)
Equip ID 5260C

Reporting Frequency: Semi-Annually

Records of liquid flow and liquid pH are maintained. There were no incidences of variances from established parameters during the reporting period.

2018 4th Quarter CEM Report Summaries

Condition FW.5(A2)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of the combination boiler that is combusting NCG streams, the daily bark fired in each combination boiler, and the daily Kraft pulp production are maintained. The daily bark/Kraft pulp production ratio and the 30-day rolling average ratio are calculated. There were no incidences of variances from the minimum level during the reporting period.

Condition FW.5(C)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling sums of SO₂ emissions are maintained. There were no incidences of monthly 12-month sums above the annual SO₂ PSD BACT limit during the reporting period.

Condition FW.6

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling average of unbleached pulp production are maintained. There were no incidences of rolling 12-month averages above the production limit during the reporting period.

2018 4th Quarter CEM Report Summaries

Conditions for MACT Affected Sources

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
MACT.1(C)	5210, 5220, 5230, 5240, 5250, 2400, 2500, 5100, 2605, & 3705	Yes	Semi-annual	See note below.
MACT.2(A)	5210, 5220, 2400, 2500, 5100, 9800, & 9801	Yes	Semi-annual	See note below.
MACT.3(A)	5300	Yes	Semi-annual	See note below.
MACT.4	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 5100, 2605, 3705, 9800, & 9801	No	N/A	N/A
MACT.5(A2)	2505, 2723, & 5105	Yes	Quarterly	See note below.
MACT.5(C)	2510 & 5110	Yes	Quarterly	See note below.
MACT.6	2010 & 4610	Yes	Semi-annual	See note below.
MACT.7	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 9800, & 9801	No	N/A	N/A
MACT.8, MACT.9, & MACT.10	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 2605, 3705, 9800, & 9801	No	N/A	N/A

2018 4th Quarter CEM Report Summaries

Condition MACT.1(C)

**Equip IDs 5210, 5220, 5230, 5240, 5250
2400, 2500, 5100, 2605, & 3705**

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.2(A)

**Equip IDs 5210, 5220, 2400, 2500,
5100, 9800, & 9801**

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.3(A)

Equip ID 5300

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.5(A2)

Equip IDs 2505, 2723, & 5105

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.5(C)

Equip IDs 2510 & 5110

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.6

Equip IDs 2010 & 4610

Reporting Frequency: Semi-Annually

See the attached POWC MACT report.



Resolute Forest Products – Catawba Mill
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SIP

CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Combination Boiler No. 1

Report Period 7/1/18 to 12/31/18

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
There were no excursion events or downtime during the month of July 2018.										
There were no excursion events or downtime during the month of August 2018.										
1	9/6/18	10:36 AM	-	x			12		Upscale cal failed	Ran calibration
2	9/13/18	1:42 PM	55	x			12		Starting up boiler from annual shutdown	On gas, stabilize flame
3	9/13/18	2:30 PM	-	x			45		Quarterly service	Complete quarterly service
4	9/14/18	10:00 AM	-	x			90		Reading erratic	Cleaned lens, re aligned, ran cal
1	10/29/18	9:24 PM	69	x			6		Boiler tripped out, Return fire to boiler	Stabilize operations
1	11/2/18	6:00 PM	55	x			6		Outlet TR dripped	Reduced bark burning
2	11/2/18	8:25 PM	-	x			225	225	Bypassed ESP for wash	Washed ESP and put back into service
3	11/9/18	3:00 PM	64	x			6		Working on low oil pressure ID fan instrument	Restarted instrument
4	11/10/18	12:20 PM	-	x			100	100	Bypassed ESP for wash	Completed wash nad put back into service
6	11/16/18	1:20 PM	-	x			115	115	Fields not loading up on EP,	Removed bark from boiler and washed EP
7	11/21/18	9:00 AM	-	x			110		Quarterly maintenance on monitor	Return monitor to service
8	11/23/18	1:28 AM	-	x			107	107	Fire in hopper	Remove bark, bypass EP, wash EP
9	11/27/18	4:25 PM	-	x			271	271	Bypassed ESP for wash, rotary valve locked up	Finished wash, repaired rotary valve
1	12/4/18	12:42 AM	-	x			1398	1398	Lost ash screw, pulled bark, and bypassed ESP	Repaired ash screw, burned natural gas only. Returned ESP after work complete
2	12/5/18	12:00 AM	-	x			1440	1440	Lost ash screw, pulled bark, and bypassed ESP	Repaired ash screw, burned natural gas only. Returned ESP after work complete
3	12/6/18	12:00 AM	-	x			780	780	Lost ash screw, pulled bark, and bypassed ESP	Repaired ash screw, burned natural gas only. Returned ESP after work complete
4	12/9/18	11:36 AM	44	x			6		Unknown	Unknown
5	12/17/18	10:54 PM	-	x			206	206	Bad fire sensing wire in SW hopper	Pulled bark, added gas, bypassed ESP, replaced wire
6	12/23/18	10:40 PM	-	x			50	50	Purge failure alarm, monitor side	Replaced filters
7	12/28/18	5:49 PM	-	x			131	131	Fire in hopper	Bypass EP, Extinguish fire, wash EP

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons

Interim General Manager

Signature: _____



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Combination Boiler No. 2

ID 3705

SIP

Report Period 7/1/18 to 12/31/18

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	7/1/18	8:24 AM	43	x			6		Unknown	Unknown
2	7/4/18	4:48 PM	47	x			6		blowing IK's	Stopped blowing IK
3	7/7/18	2:54 PM	43	x			6		blowing IK's	Stopped blowing IK
4	7/8/18	3:24 PM	43	x			6		blowing IK's	Stopped blowing IK
5	7/8/18	5:30 PM	49	x			6		blowing IK's	Stopped blowing IK
6	7/11/18	9:18 AM	-	x			708	708	Bypassed ESP to work on crossover belt	Pulled all bark, added gas
7	7/12/18	7:18 PM	50	x			6		EP fields not loading up	Cut back on bark
8	7/13/18	2:54 PM	43	x			6		Unknown	Unknown
9	7/14/18	12:00 PM	49	x			6		Unknown	Unknown
10	7/19/18	5:12 AM	56	x			6		blowing IK's	Stopped blowing IK
11	7/22/18	6:42 AM	41	x			6		EP fields not loading up	Cut back on bark, put gas in
12	7/31/18	5:48 PM	46	x			6		blowing IK's	Stopped blowing IK
1	8/2/18	1:54 AM	41	x			6		Unknown	Unknown
2	8/6/18	11:24 PM	49	x			6		Unknown	Unknown
3	8/10/18	2:00 AM	42	x			6		blowing IK's	Stopped blowing IK
4	8/12/18	9:06 PM	45	x			12		blowing IK's	Stopped blowing IK
5	8/14/18	3:30 PM	48	x			6		EP fields not loading up	Cut air on boiler
6	8/15/18	4:30 PM	50	x			6		Unknown	Unknown
7	8/21/18	8:00 PM	51	x			6		blowing IK's	Stopped blowing IK
8	8/21/18	11:54 PM	46	x			6		Unknown	Unknown
9	8/24/18	7:48 AM	49	x			6		blowing IK's	Stopped blowing IK
10	8/30/18	4:06 AM	41	x			6		Wet bark and load on TR3 backed down	Adjusted air, TR3 loaded back up
1	9/1/18	2:54 PM	46	x			6		Unknown	Unknown
2	9/5/18	11:12 PM	58	x			6		Starting up boiler from shutdown	Stabilize fire in boiler
3	9/7/18	10:13 AM	-	x			78	78	Fire in hopper	Bypass EP
4	9/8/18	12:18 AM	45	x			6		blowing IK's	Stopped blowing IK
5	9/10/18	6:42 PM	43	x			6		Unknown	Unknown
6	9/13/18	3:15 AM	-	x			30		Quaterly audit of monitor	Complete audit
7	9/16/18	9:36 PM	47	x			6		Blowing IK's, EP fields backed down	Cut back on air and bark
8	9/18/18	2:24 AM	41	x			6		Wet bark	Cut bark
9	9/24/18	2:18 PM	45	x			6		Blowing IK	Stopped blowing IK
10	9/24/18	10:12 PM	42	x			6		Blowing IK	Stopped blowing IK
11	9/26/18	10:36 PM	48	x			6		Wet bark	Cut bark and air
12	9/27/18	9:42 PM	67	x			24		Wet bark	Cut back on air and bark, put in gas
13	9/28/18	5:24 PM	47	x			6		Blowing IK	Stopped blowing IK



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Combination Boiler No. 2

ID 3705

SIP

Report Period 7/1/18 to 12/31/18

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	10/6/18	12:00 AM	40	x			6		Blowing IK	Stopped blowing IK
2	10/14/18	1:12 AM	66	x			6		EP Fields tripped	Reset fields
3	10/14/18	2:54 AM	65	x			6		EP Fields tripped	Reset fields
4	10/15/18	4:48 AM	71	x			12		Blowing IK	Stopped blowing IK
5	10/30/18	10:54 PM	60	x			6		Blowing IK	Stopped blowing IK
6	10/31/18	10:30 PM	46	x			6		Blowing IK	Stopped blowing IK
1	11/5/18	7:06 AM	43	x			6		TR3 Tripped	Reset
2	11/5/18	8:00 AM	44	x			12		TR3 Tripped	Reset
3	11/15/18	3:48 AM	42	x			6		Wet bark, fields not loading up	Cut bark
4	11/15/18	5:48 AM	47				24		Wet bark, fields not loading up	Cut bark
5	11/15/18	6:24 AM	43	x			6		Wet bark, fields not loading up	Cut bark
7	11/16/18	10:40 AM	-	x			105	105	EP fields not loading up	Removed bark from boiler and washed EP
8	11/21/18	9:00 AM	-	x			110		Quarterly audit of monitor	Return monitor to service
9	11/27/18	10:18 AM	41	x			6		Wet bark	Cut back on bark and air
1	12/2/18	6:24 PM	46	x			6		Unknown	Unknown
2	12/4/18	1:00 AM	41	x			6		EP trouble, high steam load, wet bark	Cut back on bark and air
3	12/15/18	4:48 AM	55	x			6		Blowing IK, heavy rain	Reversed IK
4	12/18/18	3:25 PM	73	x			6		Unknown	Unknown
5	12/20/18	5:18 AM	51	x			6		Unknown	Opacity spiked and returned to normal

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: _____



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

ID 2505

TV

Report Period 7/1/18 to 12/31/18

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/1/2018	3:42 AM	avg>20%	x			108	EP Field grounded	Pulled liquor, reduced air, added fossil
2	7/3/2018	7:36 PM	avg>20%	x			60	EP field tripped due to high temperature	Reduced liquor burning, replaced belts on exhaust fans
3	7/9/2018	6:18 PM	38	x			6	TR2 field down on EP	Cut back on liquor and air
4	7/9/2018	1:10 PM	-	x			20	Out of alignment	Aligned and cleaned mirror
5	7/19/2018	5:36 AM	51	x			6	Start up	Completed start-up
6	7/29/2018	7:00 PM	49	x			18	No. 1 EP field tripped out	Cut back on liquor and air,
7	7/29/2018	7:00 PM	avg>20%	x			60	No. 1 EP field tripped out	Cut back on liquor and air, reset field
1	8/7/2018	6:42 AM	45	x			6	Replacing EP north collection gearbox	Replace gearbox
2	8/7/2018	6:42 AM	avg>20%	x			60	Replacing EP north collection gearbox	Replace gearbox
3	8/26/2018	4:45 AM	-	x			10	Out of alignment	Aligned monitor
4	8/26/2018	10:36 PM	avg>20%	x			84	Shutting down furnace, All liquor out of furnace	Complete shutdown
1	9/13/2018	10:00 AM	-	x			95	Quarterly service	Complete service
2	9/14/2018	10:30 PM	48	x			12	TR2 tripped on EP	Closed north inlet, cut back on air and liquor
1	10/11/2018	6:00 AM	-	x			240	Monitor out of alignment	Realigned
2	10/12/2018	10:00 AM	-	x			15	Out of alignment	Realigned
3	10/12/2018	10:54 AM	55	x			36	Changed out breaker on EP	Pulled liquor, cut back on air, shut inlet gate
4	10/23/2018	4:36 AM	68	x			68	Middle EP field tripped	Reset field
5	10/28/2018	8:54 AM	41	x			6	Unknown	No operating issues noted, checking monitor
6	10/28/2018	8:30 PM	-	x			15	Out of alignment	Realigned
7	10/29/2018	8:54 AM	-	x			42	Out of alignment	Realigned
1	11/2/2018	3:20 PM	-	x			15	Out of alignment	Realigned
2	11/3/2018	2:18 AM	-	x			52	Out of alignment	Realigned
3	11/6/2018	9:00 AM	-	x			20	Out of alignment	Realigned
4	11/6/2018	12:10 PM	-	x			20	Out of alignment	Realigned
5	11/16/2018	7:42 AM	-	x			36	Out of alignment	Realigned
6	11/17/2018	2:50 PM	-	x			10	Out of alignment	Realigned
7	11/19/2018	12:04 PM	-	x			94	Quarterly service	Complete quarterly service
8	11/22/2018	5:24 AM	-	x			180	Out of alignment	Realigned
9	11/23/2018	7:36 PM	-	x			24	Out of alignment	Realigned
10	11/29/2018	5:24 AM	-	x			54	Out of alignment	Realigned
1	12/6/2018	9:20 AM	-	x			20	Out of alignment	Realigned

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: _____



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 3

ID 5105

NSPS

Report Period 7/1/18 to 12/31/18

Permit Conditions 5.C.07.3, 5.C.07.12, 5.C.15, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
There were no excursion events or downtime during the month of July 2018.									
1	8/3/18	4:36 AM	37	x			6	South drag chain conveyor on EP broke	Isolate east side of EP
2	8/3/18	5:06 AM	38	x			12	South drag chain conveyor on EP broke	Isolate east side of EP
3	8/3/18	4:42 AM	Avg>20%	x			168	South drag chain conveyor failed	Isolate east side of EP
4	8/3/18	8:30 AM	Avg>20%	x			60	South drag chain conveyor failed	Isolate east side of EP
1	9/13/18	12:45 PM	-	x			75	Quarterly maintenance	Complete quarterly service
There were no excursion events or downtime during the month of October 2018.									
1	11/6/18	3:54 PM	Avg>20%	x			72	Blackout in furnace bed, Operations unstable	Stabilized operations
2	11/19/18	1:40 PM	-	x			92	Quarterly maintenance	Complete quarterly service
3	11/27/18	7:30 AM	-	x			570	"No stack communication" fault on monitor in control room, found bad pair of wires	Relocated to spare pair of wires, restarted unit
There were no excursion events or downtime during the month of December 2018.									

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons

Interim General Manager

Signature: _____



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Lime Kiln No. 2

ID 2723

TV

Report Period 7/1/18 to 12/31/18

Permit Conditions 5.C.07.2(A), 5.C.07.12(B), 5.C.17(A), & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
There were no excursion events or downtime during the month of July 2018.									
1	8/4/18	4:18 PM	51	x			6	Gas analyzer tripped out EP	Calibrate gas analyzer
2	8/4/18	6:30 PM	52	x			6	Gas analyzer tripped out EP	Calibrate gas analyzer
3	8/4/18	8:06 PM	50	x			6	Gas analyzer tripped out EP	Calibrate gas analyzer
4	8/4/18	9:06 PM	50	x			6	Gas analyzer tripped out EP	Calibrate gas analyzer
5	8/10/18	5:54 PM	39	x			6	Gas analyzer tripped out EP	Water in lines, cleaned line
6	8/10/18	11:30 PM	51	x			6	Gas analyzer tripped out EP	Line plugged in analyzer, cleaned line
1	9/14/18	10:12 AM	31	x			12	Unknown	Unknown
2	9/20/18	5:30 PM	22	x			6	AC unit in building not working, causing instrumentation to not read properly	Cooled down instrumentation
3	9/20/18	6:00 PM	43	x			12	AC unit in building not working, causing instrumentation to not read properly	Cooled down instrumentation
4	9/27/18	9:30 PM	-	x			180	Mud from heavy rain / thunderstorm in port blocking light beam	Cleaned ports out and adjusted head
1	10/4/18	12:45 AM	-	x			65	Reading below zero	Cleaned, aligned, and calibrated
2	10/5/18	2:42 PM	28	x			6	EP tripped due to high temperature on controller	Opened cabinet door on control, contacted A/C technician
3	10/8/18	3:36 PM	24	x			6	EP tripped	Reset EP
4	10/30/18	6:00 AM	29	x			24	Kiln tripped out, fire out	Re establish fire in kiln, stabilize operations
5	10/30/18	6:36 AM	38	x			6	Kiln operations unstable following trip	Stabilize operations
6	10/30/18	7:30 AM	-	x			90	Monitor showing high dirt count	Cleaned lens and changed air filter
7	10/30/18	6:24 AM	29	x			6	EP tripped due to faulty O2 sensor	Reset EP and repair O2 sensor
8	10/31/18	8:42 AM	-	x			6	Technician forced monitor span to check monitor	Monitor ok, returned monitor to service
1	11/6/18	12:30 PM	-	x			90	High dirt count	Aligned unit, adjust zero iris and ran cal
2	11/16/18	9:54 AM	-	x			12	Cleaned lens, blew out filters	Return monitor to service
3	11/20/18	12:54 PM	-	x			72	Quarterly monitor maintenance	Return monitor to service
4	11/22/18	1:54 PM	29	x			12	EP tirpped due to faulty O2 sensor	Reset EP and began troubleshooitng sensor
5	11/22/18	2:18 PM	26	x			6	EP tirpped due to faulty O2 sensor	Reset EP and began troubleshooitng sensor
6	11/23/18	7:36 AM	52	x			12	EP tirpped due to faulty O2 sensor	Reset EP and bypassed oxygen sensor
1	12/2/18	9:00 AM	41	x			18	EP tirpped due to faulty O2 sensor	Reset EP, bypassed O2 sensor, repaired bad heater

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons

Interim General Manager

Signature: _____



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

ID 2510, ID 5110

SIP, NSPS

CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Smelt Dissolving Tank Vent Scrubber

Report Period 7/1/18 to 12/31/18

Permit Conditions 5.C.07.2; 07.16(A) & (B); 07.B.MACT.5

This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
					There were no excursion events or downtime during the month of July 2018.	
					There were no excursion events or downtime during the month of August 2018.	
					There were no excursion events or downtime during the month of September 2018.	
					There were no excursion events or downtime during the month of October 2018.	
					There were no excursion events or downtime during the month of November 2018.	
					There were no excursion events or downtime during the month of December 2018.	

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons

Interim General Manager

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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

High Volume Low Concentration Gas System

ID 2605, ID 3705

SIP, NSPS

Report Period 7/1/18 to 12/31/18

Permit Conditions 5.C.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1(C)

This report is for indicated emissions from the fiberline, pulp washing systems, oxygen delignification, and screening/knotting systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	HVLC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/21/2018	6:16 PM	PH: HVLC	11	Bark chute plugged on CB 1, boiler went offline	Transferred gases to CB #2
2	7/22/2018	8:06 PM	PH: HVLC	9	Fiberline flushed line causing flow to drop	Stopped flush, returned flow
There were no excursion events or downtime during the month of August 2018.						
1	9/17/2018	5:46 AM	PH: HVLC	166	Lost all power in FL area	Return power and stabilize operations
There were no excursion events or downtime during the month of October 2018.						
1	11/29/2018	12:40 AM	PH: HVLC	145	Lost main bark belt to CB's, steam header swung, blew rupture disk	Added natural gas to CB's, stabilize header, replace rupture disk, return gases
There were no excursion events or downtime during the month of December 2018.						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: _____



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Low Volume High Concentration Gas System

Report Period 7/1/18 to 12/31/18

ID 2605, ID 3705 SIP, NSPS

3.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1(C)

multiple effect evaporator systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	LVHC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
There were no excursion events or downtime during the month of July 2018.						
There were no excursion events or downtime during the month of August 2018.						
1	9/8/2018	9:14 PM	LVHC	29	Shutting down CB 1, steam header swung	Stabilize operations
2	9/10/2018	1:16 PM	LVHC	12	Vent valve failed to automatically open	Field operator manually opened valve to system
3	9/17/2018	5:46 AM	LVHC	162	Lost all power in FL area	Return power and stabilize operations
4	9/17/2018	8:36 AM	PH: Evaps 1	84	Lost all power in FL area	Shutdown Evap 1, stabilized operations
5	9/25/2018	9:00 AM	LVHC	9	Lost LVHC ignitor in CB #2	Transfer gas to CB #1 for combustion
There were no excursion events or downtime during the month of October 2018.						
1	11/16/2018	1:08 PM	LVHC	11	Steam header swung, Vent valve would not close	Stabilize operations, Operator manually closed vent valve
2	11/25/2018	2:19 PM	LVHC	18	No 3 PM down, TG no. 1 tripped	Stabilize steam header and reset turbine
3	11/27/2018	3:40 PM	LVHC	620	Blown fuse on genius block caused LVHC feed valves to CB's to remain closed; no alarm indicators for event	Trouble shot source of vent; identified blown fuse and replaced fuse.
4	11/28/2018	11:43 PM	LVHC	8	Lost main bark belt to CB's, steam header swung, blew rupture disk	Added natural gas to CB's, stabilize header, replace rupture disk, return gases
5	11/29/2018	12:40 AM	LVHC	144	Lost main bark belt to CB's, steam header swung, blew rupture disk	Added natural gas to CB's, stabilize header, replace rupture disk, return gases
6	11/29/2018	3:31 AM	LVHC	6	Lost main bark belt to CB's, steam header swung, blew rupture disk	Added natural gas to CB's, stabilize header, replace rupture disk, return gases
7	11/29/2018	7:25 AM	LVHC	82	Lost main bark belt to CB's, steam header swung, blew rupture disk	Added natural gas to CB's, stabilize header, replace rupture disk, return gases
1	12/8/2018	9:03 PM	LVHC	22	System interlock tripped out due to low flow. System vented on safety.	Forced interlock on low flow to reset system. Troubleshoot system. Found water in junction box.
2	12/28/2018	5:55 PM	LVHC	22	Steam header swung due to fire in CB 1 hopper	Stabilize header

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: _____



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Kraft Process - Bleach Plant Scrubber

ID 5300C

TV

Report Period 7/1/18 to 12/31/18

Permit Conditions: 5.C.03.1 & MACT.3(A)

This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			pH, Flow, delta P			
	There were no excursion events or downtime during the month of July 2018.					
	There were no excursion events or downtime during the month of August 2018.					
1	9/23/2018	12:00 AM	pH	180	pH probe failed, Control placed in manual and operator conducted manual testing	pH monitored via manual test, Technician replaced probe
	There were no excursion events or downtime during the month of October 2018.					
1	11/10/2018	6:10 AM	pH	50	pH showed sudden change in pH	Removed probe, cleaned, and calibrated
2	11/10/2018	7:30 AM	pH	30	pH showed sudden change in pH	Removed probe, cleaned, and calibrated
	There were no excursion events or downtime during the month of December 2018.					

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons

Interim General Manager

Signature: _____